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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/702,486	10/31/2000	Yat-Sang Hung	1515	9822

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EXAMINER

JAMAL, ALEXANDER

ART UNIT	PAPER NUMBER
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2643

DATE MAILED: 04/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/702,486

Applicant(s)

HUNG ET AL.

Examiner

Alexander Jamal

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 15 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) 10-13, 19 and 20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9, 14-18, 21-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>6</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Withdrawal of Claims*

1. Examiner acknowledges that **claims 10-13,19,20** have been withdrawn from consideration.

### *Response to Arguments*

2. Applicant's arguments with respect to claims 1-9,14-18,21-23 have been considered but are moot in view of the new ground(s) of rejection.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. **Claims 1-9,14-17** rejected under 35 U.S.C. 102(e) as being anticipated by Yamartino (6345095).

Consider **claim 1**, Yamartino discloses a subscriber terminal comprising a microprocessor (Col 6 lines 54-61), and memory that is inherent to the processor for the purpose of storing the telephone number database (Col 3 line 18-25). The telephone number database is a phone book stored in memory, with the phonebook defining a

plurality of telephone numbers. The digit sequences are stored in the telephone number database (Col 3 line 18-25).

Yamartino further discloses that that the processor receives user entered digits, determines if the digits entered represent an incomplete set of digits, and if the number is recognized, adds the additional numbers to the entered number to make a complete set of telephone digits (Col 4 lines 53-67) (Col 5 lines 18-30).

Yamartino further discloses that a preferred embodiment of a routine comprises the steps in which the digits entered by a user (the subscriber and exchange code) match at least part of a telephone number in the phone book database (The 7 digit telephone numbers with their associated area codes). In response to a determination that the digits entered do not match a part of the phone numbers in the database (there is no area code in the digits entered), the area code stored in memory is automatically added (derived) to the entered digits to establish a complete set of digits (Col 9 lines 42-63). The terminal may send the completed set of digits to a communications network (Col 12 lines 27-37).

Consider **claim 5**, Claim 5 is rejected for the same reasons as claim 1. The complete set of digits is a composite telephone number.

Consider **claim 15**, Yamartino discloses a method for providing abbreviated dialing in a subscriber terminal (with processor and memory, with the memory storing a telephone number database which is a phone book that defines a plurality of telephone numbers). The processor performs a routine in which the user may enter in digit

sequences to be stored in the telephone number database (Col 7 lines 24-37). The processor also performs a routine in which digits are entered by the user (Col 5 lines 18-37), and a lookup is done to determine if the entered digits match at least part of the numbers stored in the phone book (Col 5 line 63 to Col 6 line 19). Then, if the user has entered digits that match only one entry in the telephone database, then the selector 155 (Fig. 1) will automatically set that number as the target number and pass it on to call generator 160 (Col 10 lines 31-49).

Yamartino discloses that a preferred embodiment of a routine (a second logic) comprises the steps in which the digits entered by a user (the subscriber and exchange code) match at least part of a telephone number in the phone book database (The 7 digit telephone numbers with their associated area codes). In response to a determination that the digits entered do not match a part of the phone numbers in the database (there is no area code in the digits entered), the area code stored in memory (ie. a given area code) is automatically prepended (derived) to the entered digits to establish a complete set of digits (composite number) (Col 9 lines 42-63). Call generator 160 may send the complete number out to the network.

Consider **claim 21**, claim 21 is rejected for the same reasons as claim 15, and the following additional information disclosed by Yamartino. The processor will sense the length of the digits entered by the user (either the subscriber number or the exchange and subscriber numbers together) and, depending on the length, will select the appropriate digit sequence(s) (Col 4 line 53 to Col 5 line 18). Based upon the length and values of the

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digits, if the user entered digits (such as the exchange and subscriber digits) that correspond to an area code, then the area code is prepended onto the entered number, (Col 9 line 64 to Col 10 line 15). The length of the input digit sequence is taken into account by the terminal as the terminal may respond by adding either the area code or area code+exchange code as appropriate.

Consider **claim 22**, claim 22 is rejected for the same reasons as claim 21

Consider **claims 2,7**, Yamartino's terminal comprises a routine in which the user may enter in digit sequences to be stored in the telephone number database (Col 7 lines 24-37).

Consider **claims 3,6,9,16,17** Yamartino's terminal may be wireless or landline (ABSTRACT).

Consider **claims 4,8**, In Yamartino's terminal, a 'send' button (on a keyboard) may be pressed to interact with selector 155 (Fig.1) (Col 6 lines 37-52) at which point selector 155 will communicate with Call Generator 160(Col 10 lines 30-37) to begin to complete the translation from the digits entered by the user to a complete telephone number that is dialed out.

Consider **claim 14**, Yamartino's terminal will sense the length of the digits entered by the user (either the subscriber number or the exchange and subscriber numbers together) and, depending on the length, will select the appropriate digit sequence(s) (Col 4 line 53 to Col 5 line 18). A user may enter in a 4 digit subscriber number or a 7 digit telephone number without an area code , and the system will prepend the appropriate digits (such as the area or exchange code given from the phonebook database) to the entered digits.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. **Claims 18,23** rejected under 35 U.S.C. 103(a) as being unpatentable over Yamartino (6345095).

Consider **claim 18**, Yamartino discloses applicant's claim 15, as well as using a 'send' button (such as a keyboard button) in order to indicate to the terminal that the user has made a selection (Col 6 lines 37-52). However, Yamartino does not specify using a

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send button to indicate the use of a send button to signify the user is done entering digits (and as such, have the second logic execute after the send button has been pressed).

Yamartino discloses the use of a keyboard (send button) (Col 6 lines 37-52). He also discloses that his terminal may respond to user inputs of variable numbers of digits, or to a code character such as # or \* (Col 4 line 62 to Col 5 line 18). It would have been obvious to one of ordinary skill in the art at the time of this application to implement the use of a send button to signify the user is done entering a digit string for the purpose of allowing the terminal to be able to recognize when the user has finished entering a particular digit string.

Consider **claim 23**, Yamartino discloses a method in which a user can enter in a predesignated amount of digits (4 is given as example) in order to initialize the system. Once the system is initialized the appropriate set of numbers from the telephone database are appended (or prepended) onto the entered digits to complete a standard telephone number (Col 9 line 64 to Col 10 line 15). However Yamartino does not disclose the abbreviated extension input being 5 digits.

Yamartino discloses that the initialization of the terminal may be determined by a predesignated number of input digits (Col 4 line 44 to Col 5 line 18). Once the system is initialized the appropriate digit sequence can be prepended onto the abbreviated number based upon the length of the input abbreviated number. As such it would have been obvious to one of ordinary skill in the art at the time of this application to choose an arbitrary number of digits that could be entered to initialize the system for the advantage



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of allowing the user the greatest range of flexibility in determining the length of the abbreviated extension and corresponding digit sequences to be prepended onto the extension.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 703-305-3433. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A Kuntz can be reached on 703-305-4708. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9315 for After Final communications.

AJ

March 30, 2004

  
CURTIS KUNTZ  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600